	Application No.	Applicant(a)
·	Application No.	Applicant(s)
Nation of Allowability	10/709,026	HSIAO, YUAN-KUN
Notice of Allowability	Examiner	Art Unit
	Hirdepal Singh	2611
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED ir i) or other appropriate commu RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to <u>10/11/2007</u> .		
2. The allowed claim(s) is/are <u>1-16</u> .		
 3. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have a linear large of the large	ve been received. ve been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give	mitted. Note the attached EXA ves reason(s) why the oath or	AMINER'S AMENDMENT or NOTICE OF reclaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.	
(a) ☐ including changes required by the Notice of Draftsper		v (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date	-	. (
(b) ☐ including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in		
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s)		
1. Notice of References Cited (PTO-892)		formal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 11/05/2007		Amendment/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allowance
	9.	<u>-</u>
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DETAILED ACTION

1. Acknowledgement is made of the amendment received on October 11, 2007.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Winston Hsu on November 21, 2007.

The application has been amended as follows:

In Claims:

(1) In claim 5, line 2; Insert **-to-** between "a control signal generator connected" and 'the target clock signal..."

Allowable Subject Matter

3. Claims 1-16 are allowed.

10/709.026

Art Unit: 2611

4. The following is an examiner's statement of reasons for allowance: The present invention comprises a phase frequency detector for adjusting the target clock signal and the input/wobble signal to the same phase in an optical disc system, where the phase frequency detector comprises plurality of logic gates and flip flops. The phase of target clock signal and wobble/input signal is adjusted using the two protection signals P1 and P2 i.e. when phase modulated part of wobble signal arrives the protection signal(s) make phase frequency detector not to adjust the phase of target clock and input signal to avoid making the output unstable. The prior art Fushimi et al. (US 6,088,307) discloses a system for adjusting wobble signal a phase adjusting circuit as shown in figure 7A, but fails to disclose using a protection signal and using the components as disclosed in the present invention. Pauls (US 6,285,219) discloses a phase frequency detector with similar arrangement but fails to control the output of flip flops based on the protection signals. Brunn et al. (US 2004/0141577) discloses a phase detector using input data as input signal for flip flops with using any protection signal. The distinct features have been added to the independent claims 1 and 11. Therefore, rendering them allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hirdepal Singh whose telephone number is 571-270-1688. The examiner can normally be reached on Mon-Fri (Alternate Friday Off)8:00AM-5:00PMEST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shuwang Liu can be reached on 571-272-3036. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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November 21, 2007

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